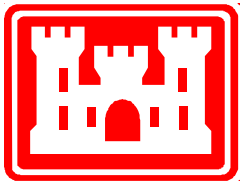




*3rd Quarter 97*

# Directorate of Research and Development



# Directorate of Research and Development





















## *Index of Indicators*

Indicator Number	Indicator (Title)	Status	Rating	Slide No.
RDSUM	Program Summary	I	G	3
RD01	Military Direct	I	G	4
RD02	Military Reimbursable	I	G	6
RD03	Civil Direct	I	G	8
RD04	Civil Reimbursable	I	G	10

B - Brief   I - Information   S - Special Interest   N - Not Addressed

# Research and Development Program Summary

## *Major Projects*

	CERL	CRREL	TEC	WES	CE
<b>Military Direct</b>					
<b>Military Reimbursable</b>					
<b>Civil Direct</b>					
<b>Civil Reimbursable</b>					

 Satisfactory     Marginal     Unsatisfactory

RDSUM

# Status of Major R&D Projects

## *Military Direct (STO)*

Projects	Lead Lab	Status
1. Rapid Obstacle Creation, Reduction & Planning	WES	Green
2. Field Fortifications	WES	Green
3. Vehicle Terrain Interaction	WES	Green
4. Lines of Communication (LOC) Materials & Methods	WES	Green
5. Digital Terrain Data Generation & Update Cap	TEC	Green
6. Personal Navigation and Reporting	TEC	Green
7. Smart Weapon Operability Enhancement	CRREL	Green
8. Battlefield Visualization Technologies	TEC	Green
9. Hyperspectral Technology	TEC	Green
10. Installation Restoration	WES	Green
11. Conservation	CERL	Green
12. Digital Topographic Data Standardization	TEC	Green

# **Status of Major R&D Projects**

## ***Military Direct (STO)***

**PROGRAM GOAL:** Complete all direct funded research efforts on schedule which will assist the Army and the Department of Defense in being responsive to the National Military Strategy.

**CURRENT YEAR OBJECTIVES :** Timely execution of research and development program.

**END OF YEAR PREDICTION:** Overall goals will be met.

**CURRENT YEAR RESOURCES:** The total FY97 direct funded Science and Technology (S&T) Research Program is \$64.9M.

**MAJOR INDICATOR:** Major milestones missed because a project falls behind schedule.

**ANALYSIS AND CORRECTIVE ACTION:** NONE

**AS OF:** 30 Jun 97

**POC:** Dr. Donald Leverenz,  
**CERD-M** 202-761-1415

**ASSESSMENT:** GREEN

# Status of Major R&D Projects

## *Military Reimbursable*

Projects	Lead Lab	Status
1. Combat Terrain Information Systems (PEO)C3S)	TEC	Green
2. TENCAP (ASPO)	TEC	Green
3. Synthetic Environment (ARPA)	TEC	Green
4. Image Understanding (ARPA)	TEC	Green
5. Precision Strike (Precision Strike Program Office)	TEC	Green
6. Dynamic Multi-User Information Fusion(DMIF)	TEC	Green
7.Eagle River Flats Restoration (DPW Ft. Richardson)	CRREL	Green

# **Status of Major R&D Projects**

## ***Military Reimbursable***

**CURRENT YEAR OBJECTIVES :** All reimbursable projects remain on schedule towards completion and meet customer requirements.

**END OF YEAR PREDICTION:** Green

**CURRENT YEAR RESOURCES:** Total FY97 customer funding is estimated at approximately \$130M.

**MAJOR INDICATOR:** Major milestones are missed because a project falls behind schedule or a customer has a valid issue on status of the project and/or redirects the effort.

**ANALYSIS AND CORRECTIVE ACTION:** NONE

**AS OF:** 30 Jun 97

**POC:** Dr. Donald Leverenz,  
CERD-M 202-761-1415

**ASSESSMENT:** GREEN

# Status of Major R&D Projects

## *Civil Works Direct*

Projects	Lead Lab	Status
1. Materials	WES	Green
2. Coastal Engineering	WES	Green
3. Flood Control & Navigation	WES	Green
4. Environmental Quality	WES	Green
5. Water Resources Plan Studies	IWR	Green
6. Surveying and Remote Sensing	CRREL	Green
7. Construction Operations & Maintenance	ALL	Green
8. Risk Analysis	IWR	Green
9. Zebra Mussel Control	WES	Green
10. Earthquake Engineering	WES	Green
11. Evaluation of Environmental Investments	IWR	Green



# **Status of Major R&D Projects**

## ***Civil Works Direct***

**PROGRAM GOAL:** To provide timely, innovative, cost effective technology in support of the Civil Works Program.

**CURRENT YEAR OBJECTIVES :** Meet milestone schedules established in Civil Works R&D Program.

**END OF YEAR PREDICTION:** All established objectives will be fully met.

**CURRENT YEAR RESOURCES:** The total FY97 direct funded Civil Works R&D program is \$29M.

**MAJOR INDICATOR:** Established milestones fully met.

**ANALYSIS AND CORRECTIVE ACTION:** NONE

**AS OF:** 30 Jun 97

**POC:** Dr. William E. Roper,  
CERD-C, 202-761-1842

**ASSESSMENT:** GREEN

RD03

# Status of Major R&D Projects

## *Civil Works Reimbursable*

Projects	Lead Lab	Status
1. Upper Mississippi River Navigation Effect Studies	WES/HL	Green
2. Olmstead Lock and Dam (Louisville Dist.)	WES/HL	Green
3. Los Angeles County Drainage Area Studies (L.A. Dist)	WES/HL	Green
4. Erosion Control Monitoring (Vicksburg Dist)	WES/HL	Green
5. North Pacific Fisheries Engineering Studies (Portland & Walla Walla Dist)	WES/HL	Green
6. Los Angeles-Long Beach Harbors Model (L.A. Dist)	WES/HL	Green
7. 1D/2D Model Development on Upper Mississippi (LMVD)	WES/CERC	Green
8. Northern Sea Route Reconnaissance Study (Alaska Dist)	CRREL	Green

# **Status of Major R&D Projects**

## ***Civil Works Reimbursable***

**PROGRAM GOAL:** To facilitate Civil Works Directorate program implementation

**CURRENT YEAR OBJECTIVES :** Meet Priority Division R&D support requirements.

**END OF YEAR PREDICTION:** All established objectives will be fully met.

**CURRENT YEAR RESOURCES:** Current year resources from CE Divisions and Districts are approximately \$90M

**MAJOR INDICATOR:** Established milestones fully met.

**ANALYSIS AND CORRECTIVE ACTION:** No corrective actions required for 3rd Quarter FY97.

**AS OF:** 30 Jun 97

**POC:** Dr. William E. Roper,  
CERD-C, 202-761-1842

**ASSESSMENT:** GREEN

RD04